

For the Board Meeting of October 28, 2009

CD 15

MOTION

The Bureau of Sanitation's Terminal Island Water Reclamation Plant (TIWRP) treats approximately 16 million gallons of wastewater per day. The majority of the treated water is discharged into the Los Angeles Harbor, although approximately four million gallons per day receives advanced treatment in the Advanced Wastewater Treatment Facility (AWTF). The AWTF is a partnership between the Department of Water and Power and the Bureau of Sanitation to produce reclaimed water for beneficial reuse. Currently the reclaimed water is sold to Los Angeles County for use as a barrier to prevent sea water intrusion of fresh water in the Dominguez Gap.

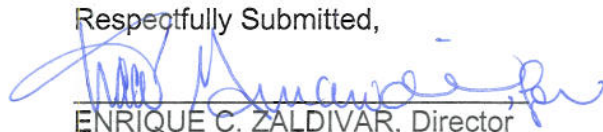
Los Angeles County Department of Public Works (LACDPW) recently imposed a Langlier Saturation Index (LSI) requirement to raise the pH value of reclaimed water entering into their distribution system due to the corrosion of the unlined concrete pipes. Historical studies have found that the cause of the corrosion was by the water with a low pH value.

TIWRP currently uses Hydrated lime which was tested and found to meet the LSI requirements, however it failed to meet the turbidity requirements. Calcium Chloride Solution 35% was found to meet the LSI and the turbidity requirement of the LACDPW.

The approximate cost of the Calcium Chloride per year is \$425,590.00 based on using 3,869,000 lbs at 11 cents per pound. Funds for this chemical will be available due to TIWRP's decision to pump 100% of its sludge into the TIRE project and thereby eliminate the need for dewatering and the use of Emulsion Cationic Polymer which cost \$478,453 annually.

IT IS THEREFORE MOVED that the Board of Public Works approve the establishment of a contract to purchase Calcium Chloride an estimated annual cost of \$425,590, which is fully reimbursable by the Department of Water and Power. FURTHERMORE, that the Board of Public Works approve the Department of General Services, as authorized by City Charter, to solicit bids, select the lowest and most responsive bidder meeting the specifications, and award a contract for the purchase of Calcium Chloride 35% solution.

Respectfully Submitted,



ENRIQUE C. ZALDIVAR, Director
Bureau of Sanitation

Attachment:
EMPAC Requisition # - 20093191

Prepared by:
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